

AVEN (C-16): sc-49885



The Power to Question

BACKGROUND

AVEN, a cell death regulator, is an important signal inducer in acute leukemias. AVEN is a highly conserved peripheral membrane protein that protects the cell against the proteolytic activation of caspases as well as Apaf-1 mediated apoptosis by interfering with the ability of Apaf to self-associate. Bcl-2 and Bad also interact with AVEN to prevent apoptosis. AVEN is highly expressed in ovary, heart, thymus, spleen, testis and colon, but can also be detected in other tissues. Erythropoietin and methylprednisolone may play important roles in the expression of AVEN in cardiac tissue, especially after a traumatic brain injury. In young patients suffering from acute lymphoblastic leukemia (ALL), AVEN expression may be a useful tool in prognosis prediction.

REFERENCES

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6. Kerl, H., Cerroni, L., Burg, G., Cerio, R., Gollnick, H. and Smoller, B.R. 2004. International board certification in dermatopathology: paving the way for the future. *Am. J. Dermatopathol.* 26: 439-440.

CHROMOSOMAL LOCATION

Genetic locus: AVEN (human) mapping to 15q14; Aven (mouse) mapping to 2 E3.

SOURCE

AVEN (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of AVEN of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-49885 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

AVEN (C-16) is recommended for detection of AVEN of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for AVEN siRNA (h): sc-60233, AVEN siRNA (m): sc-60234, AVEN shRNA Plasmid (h): sc-60233-SH, AVEN shRNA Plasmid (m): sc-60234-SH, AVEN shRNA (h) Lentiviral Particles: sc-60233-V and AVEN shRNA (m) Lentiviral Particles: sc-60234-V.

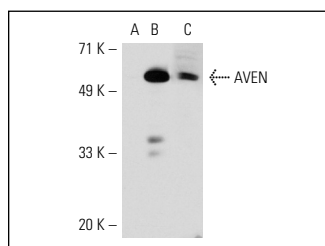
Molecular Weight of AVEN: 55 kDa.

Positive Controls: AVEN (h): 293 Lysate: sc-112293, Ramos cell lysate: sc-2216 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



AVEN (C-16): sc-49885. Western blot analysis of AVEN expression in non-transfected 293: sc-110760 (A), human AVEN transfected 293: sc-112293 (B) and Ramos (C) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **AVEN (48): sc-136455** or **AVEN (3L3): sc-134275**, our highly recommended monoclonal alternatives to AVEN (C-16).